

2011-02-28 Monday Morning Notes

Monday, February 28, 2011
8:01 AM

Stacking and Transfers

- Stacked 25.3mA/hr with an average production of 19.45 pbars/Mp with 8.13 Tp on target
- Unstacked 1391E10 (463E10/day) in 153 transfers (51/day) in 48 sets (16/day) with an average efficiency 95.5%

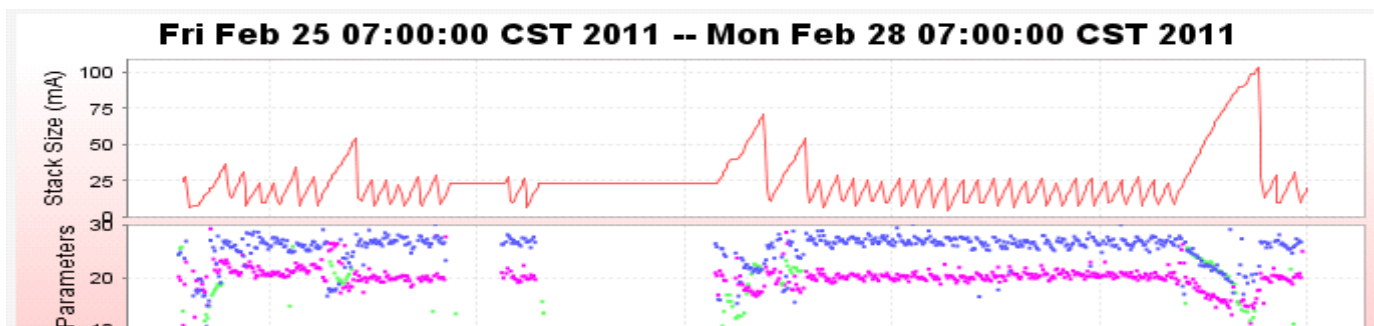
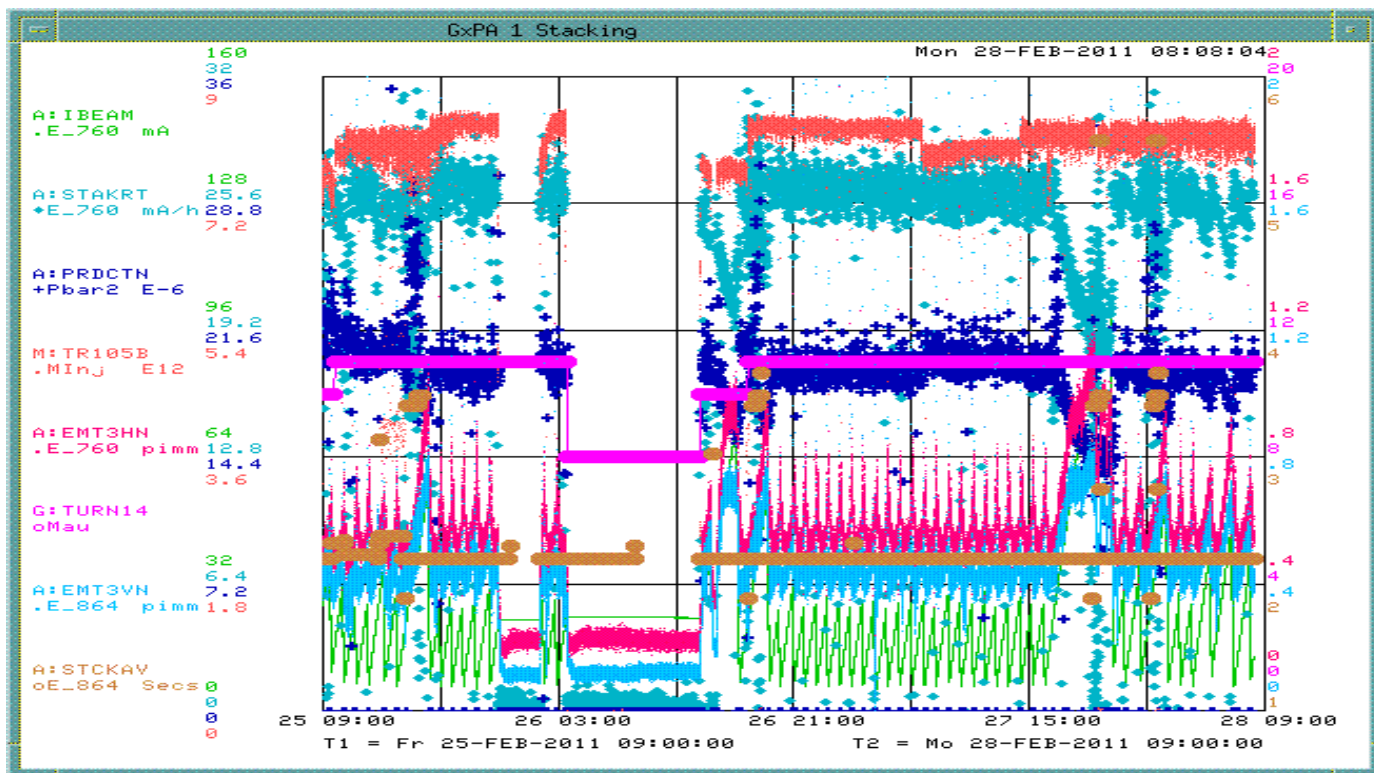
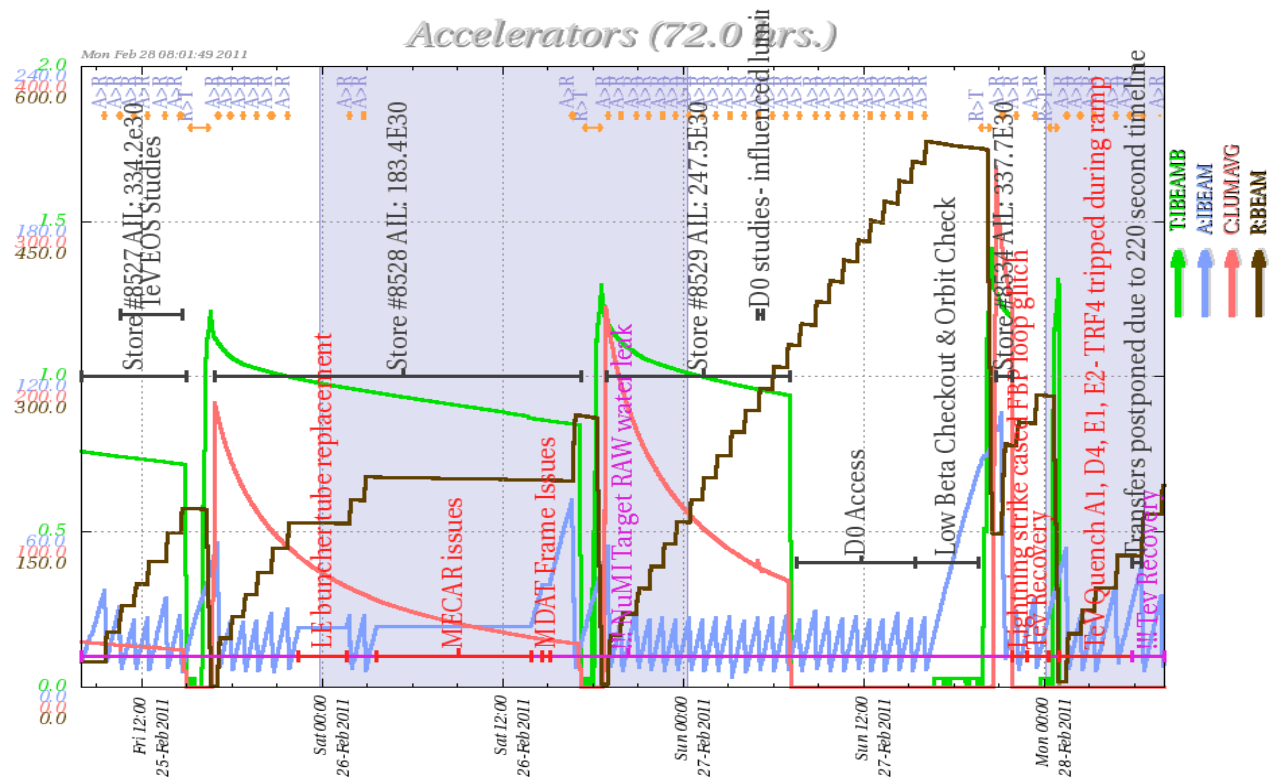
Interesting Happenings

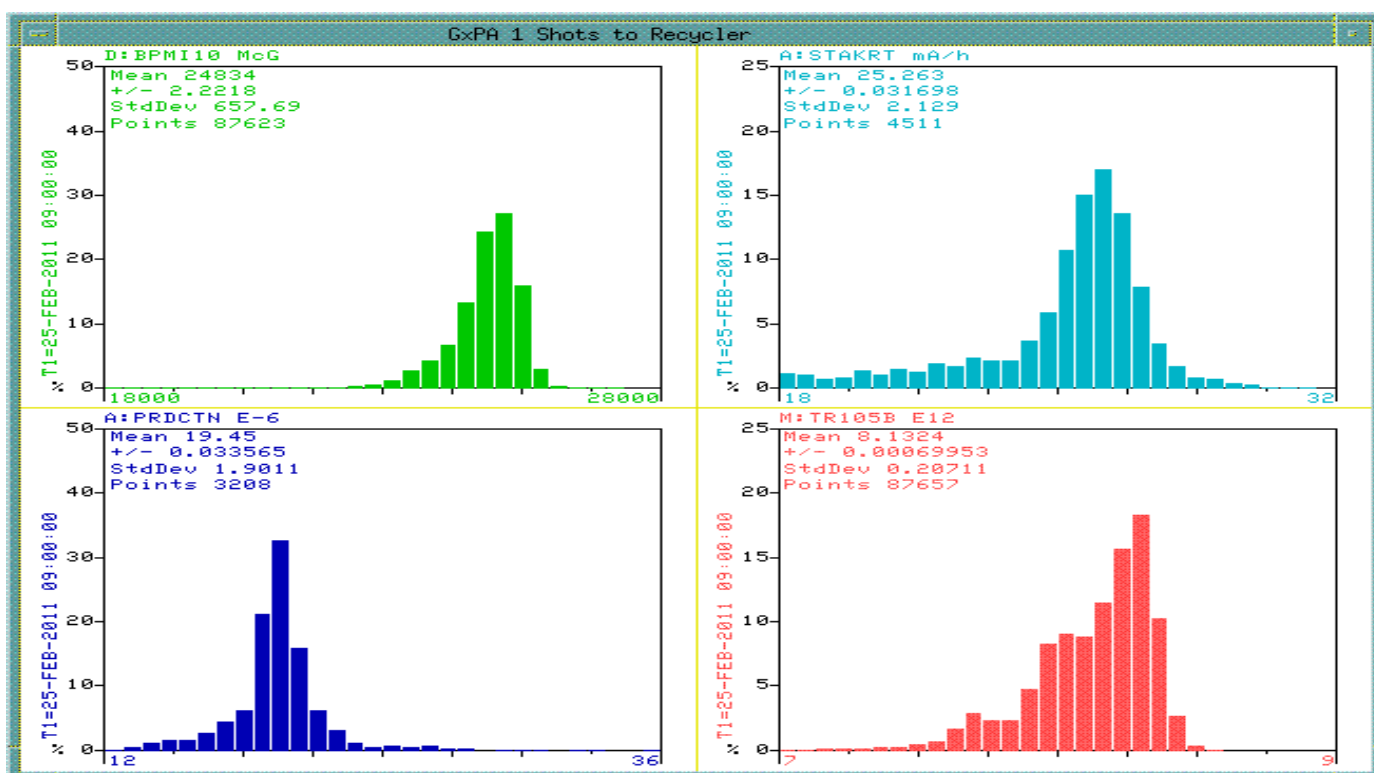
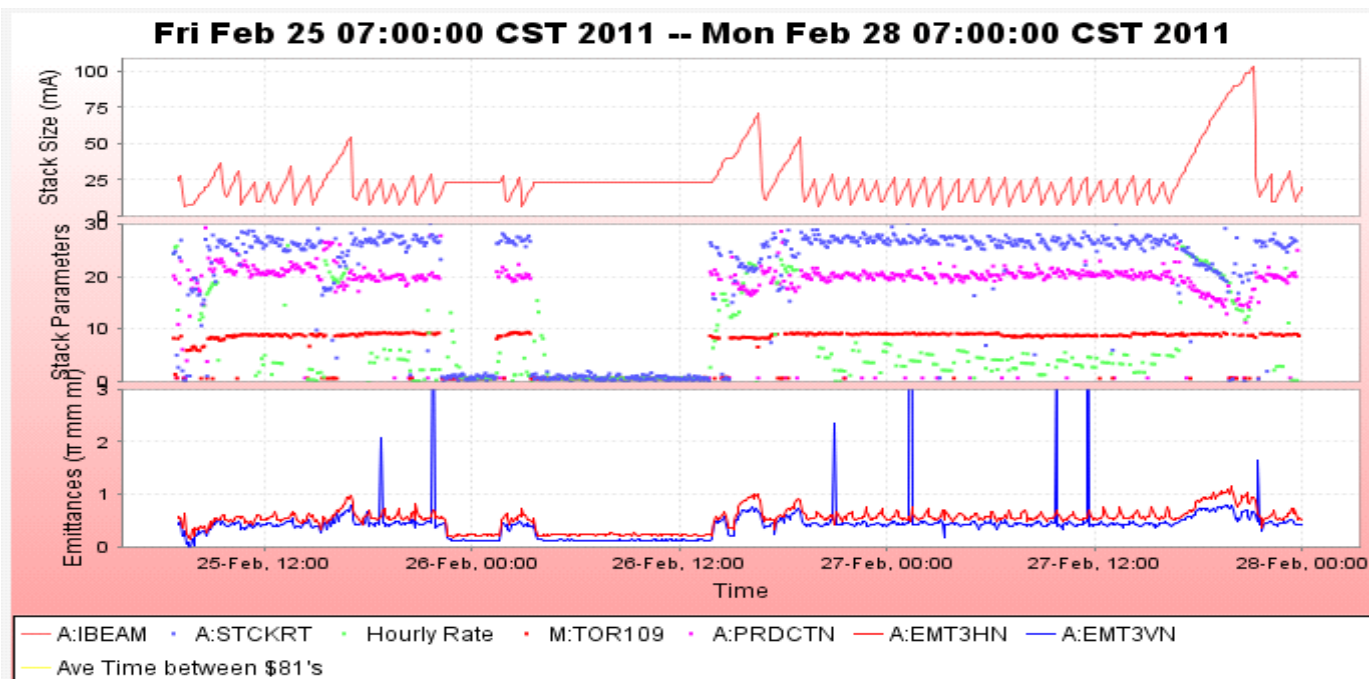
- \$29 stacking-only beam over the weekend due to NuMI RAW water leak.

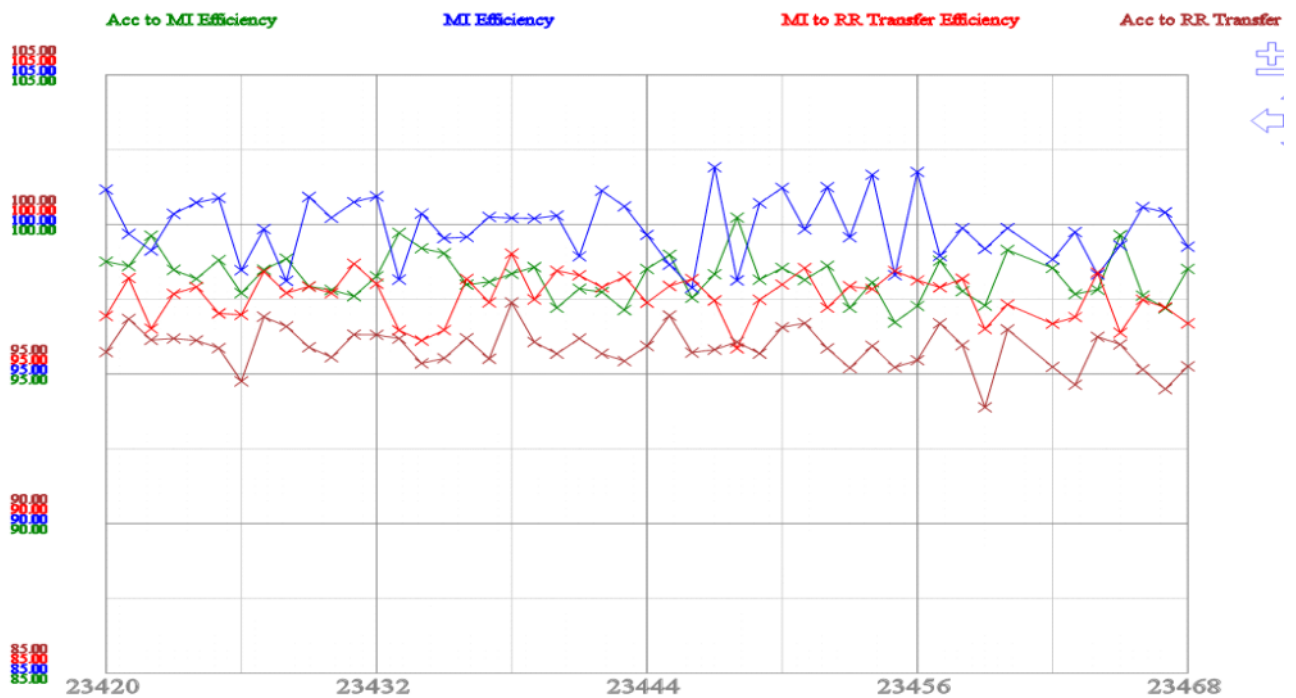
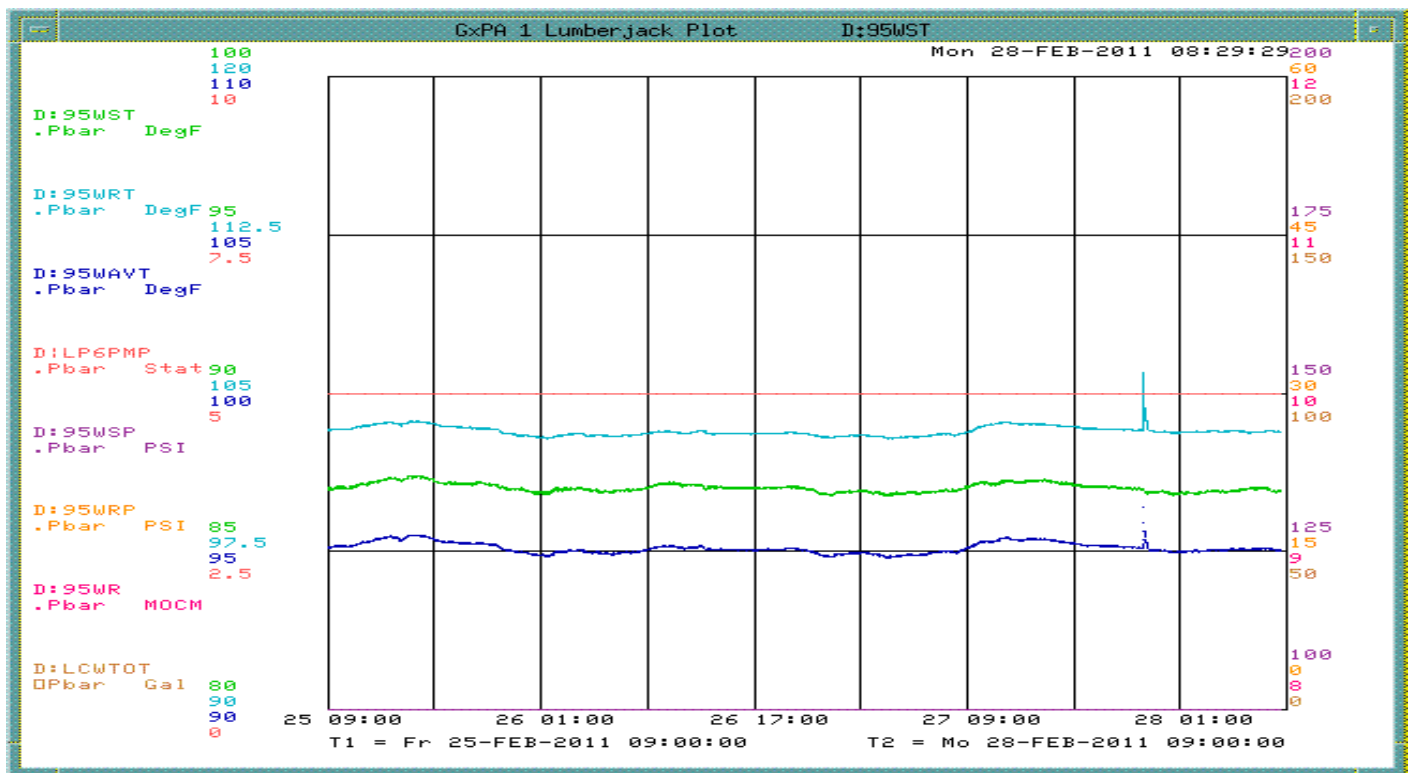
Numbers

- Stacking
 - Pbars stacked: 1400.44 E10
 - Time stacking: 58.70 Hr
 - Average stacking rate: 23.86 E10/Hr
- Uptime
 - Number of pulses while in stacking mode: 93221
 - Number of pulses with beam: 89185
 - Fraction of up pulses was: 95.67%
- The uptime's effect on the stacking numbers
 - Corrected time stacking: 56.16 Hr
 - Possible average stacking rate: 24.94 E10/Hr
 - Could have stacked: 1463.82 E10/Hr
- Recycler Transfers
 - Pbars sent to the Recycler: 1376.42 E10
 - Number of transfers : 152
 - Number of transfer sets: 48
 - Average Number of transfer per set: 3.17
 - Time taken to shoot including reverse proton tuneup: 00.53 Hr
 - Transfer efficiency: 95.14%
- Other Info
 - Average POT : 8.09 E12
 - Average production: 19.40 pbars/E6 protons

Plots







Column 1 Number _0_Pbar Transfer Shot #	Column 4 Number_3_ Transfer Time		Column 21 Number _20_A:1 BEAMB sampled on \$91 (A:BEA M7). E10	Column 22 Number _21_A:1 BEAMB sampled on \$94 (A:BEA M9). E10	Unstacked (mA)	Column 23 Number _22_R: BEAMS (R:BEA ME0(0)) pre sfer E10	Column 24 Number _23_R: BEAM (R:BEA ME0(1)) post sfer, E10	Stashed	Acc to RR Eff	Acc to MI Eff	Acc to MI2 Eff	Acc to MI * Acc to MI2 Efficiency	Trans fers	Sets	Column 5 Number _4_Acc Horizont al Emittanc e	Column 6 Number _5_Acc Vertical Emittanc e	Column 8 Number _7_Acc Longitu dinal Emittanc e
	Totals =>				1391.11			1328.82	95.52%	98.15%	97.92%	96.11%	153	48	5.7018	4.2801	1.927
	Daily Average =>				463.70			442.94					51	16			
23468	Monday, February 28, 2011	7:47	35.52	7.63	30.38	166.93	195.32	28.90	95.13%	98.35%	97.35%	95.75%	3	1	5.971	4.636	1.908
23467	Monday, February 28, 2011	6:28	46.70	6.19	44.12	127.15	167.61	41.51	94.10%	97.43%	97.60%	95.09%	4	1	6.331	4.649	1.882
23466	Monday, February 28, 2011	4:46	39.93	8.62	33.80	95.97	127.67	32.16	95.15%	97.85%	98.30%	96.18%	3	1	6.332	4.86	1.911
23465	Monday, February 28, 2011	3:20	26.73	6.14	23.16	74.18	96.27	22.24	96.04%	98.93%	98.84%	97.79%	3	1	5.367	4.185	1.965
23464	Monday, February 28, 2011	2:26	27.63	6.35	23.86	51.67	74.34	22.95	96.19%	97.96%	96.80%	94.82%	3	1	5.539	4.326	1.934
23463	Monday, February 28, 2011	1:28	53.75	7.07	50.09	5.68	52.03	47.18	94.18%	97.76%	97.58%	95.39%	4	1	6.429	4.792	1.85
23462	Sunday, February 27, 2011	23:24	34.98	7.73	29.79	255.07	282.80	28.32	95.07%	97.91%	96.96%	94.92%	3	1	6.057	4.599	1.91
23460	Sunday, February 27, 2011	22:11	29.34	6.88	25.06	232.94	256.53	24.16	96.42%	98.82%	98.55%	97.39%	3	1	5.481	4.3	1.957
23459	Sunday, February 27, 2011	21:09	101.71	11.06	97.65	148.21	235.77	91.23	93.43%	97.07%	96.20%	93.38%	6	1	7.160	4.977	1.711
23458	Sunday, February 27, 2011	16:03	27.05	6.40	23.25	506.47	528.06	22.35	96.13%	97.42%	97.91%	95.39%	3	1	5.654	4.252	1.955
23457	Sunday, February 27, 2011	15:09	26.81	6.37	23.01	487.65	508.93	22.18	96.38%	99.17%	97.28%	96.47%	3	1	5.632	4.147	1.933
23456	Sunday, February 27, 2011	14:16	28.64	6.74	24.45	467.28	489.84	23.38	95.59%	97.56%	98.70%	96.29%	3	1	5.462	4.127	1.937
23455	Sunday, February 27, 2011	13:17	26.50	6.20	22.95	449.03	470.03	21.85	95.21%	96.84%	95.46%	92.45%	3	1	5.467	4.112	1.948
23454	Sunday, February 27, 2011	12:23	26.31	6.13	22.77	430.36	451.43	21.88	96.07%	97.98%	99.08%	97.08%	3	1	5.543	4.146	1.946
23453	Sunday, February 27, 2011	11:32	27.82	7.31	23.20	411.06	432.43	22.05	95.06%	97.23%	96.82%	94.14%	3	1	5.581	4.267	1.95
23452	Sunday, February 27, 2011	10:35	26.77	6.23	23.16	391.56	413.05	22.24	96.06%	98.96%	99.33%	98.29%	3	1	5.432	3.87	1.967
23451	Sunday, February 27, 2011	9:39	27.07	6.08	23.43	371.61	393.48	22.59	96.41%	97.76%	97.92%	95.73%	3	1	5.388	3.874	1.946
23450	Sunday, February 27, 2011	8:46	29.38	7.07	24.92	349.90	373.19	24.04	96.49%	98.47%	99.31%	97.79%	3	1	5.645	4.185	1.943
23449	Sunday, February 27, 2011	7:45	26.10	5.97	22.72	330.22	351.31	21.74	95.70%	98.04%	98.35%	96.42%	3	1	5.615	4.083	1.915
23448	Sunday, February 27, 2011	6:52	27.61	6.53	23.64	309.08	331.30	22.72	96.14%	99.85%	97.77%	97.63%	3	1	5.824	4.165	1.939
23447	Sunday, February 27, 2011	5:56	27.31	6.37	23.51	287.99	310.08	22.54	95.87%	98.85%	99.45%	98.30%	3	1	5.773	4.235	1.933
23446	Sunday, February 27, 2011	5:00	27.03	6.42	23.27	267.10	288.95	22.31	95.84%	97.92%	96.15%	94.14%	3	1	5.607	4.239	1.913
23445	Sunday, February 27, 2011	4:04	25.90	5.98	22.57	246.56	267.89	21.77	96.46%	98.69%	97.23%	95.95%	3	1	5.385	4.089	1.966
23444	Sunday, February 27, 2011	3:07	27.58	3.99	24.95	223.55	247.14	23.94	95.96%	98.38%	97.80%	96.22%	3	1	4.752	3.279	1.897
23443	Sunday, February 27, 2011	2:12	26.97	6.41	23.23	202.19	224.09	22.21	95.64%	97.60%	98.34%	95.98%	3	1	5.659	4.126	1.937
23442	Sunday, February 27, 2011	1:17	26.13	6.14	22.65	181.23	202.66	21.71	95.83%	97.68%	98.45%	96.16%	3	1	5.484	4.27	1.95
23441	Sunday, February 27, 2011	0:25	27.40	6.51	23.53	159.35	181.60	22.60	96.04%	97.60%	96.71%	94.39%	3	1	5.452	4.09	1.946
23440	Saturday, February 26, 2011	23:30	26.13	6.20	22.62	138.26	159.72	21.65	95.72%	96.99%	97.01%	94.09%	3	1	5.638	4.217	1.95
23439	Saturday, February 26, 2011	22:38	26.83	6.48	23.01	116.67	138.53	22.13	96.17%	98.45%	98.45%	96.93%	3	1	5.386	4.119	1.956
23438	Saturday, February 26, 2011	21:45	26.13	6.25	22.48	95.39	116.89	21.85	97.18%	98.35%	98.72%	97.09%	3	1	5.265	3.932	1.94
23437	Saturday, February 26, 2011	20:55	31.16	7.57	26.21	70.82	95.64	25.01	95.43%	97.76%	97.50%	95.32%	3	1	5.86	4.435	1.936
23436	Saturday, February 26, 2011	19:51	25.56	6.16	22.03	50.05	71.04	21.19	96.21%	98.25%	97.56%	95.86%	3	1	5.566	4.209	1.931
23435	Saturday, February 26, 2011	19:00	55.00	7.49	51.08	2.70	50.38	48.50	94.96%	98.27%	98.14%	96.44%	4	1	6.372	4.745	1.862
23434	Saturday, February 26, 2011	16:38	72.64	7.17	69.78	199.35	263.33	66.23	94.92%	98.97%	99.27%	98.25%	5	1	6.555	4.849	1.808
23433	Saturday, February 26, 2011	2:48	27.85	6.44	24.00	180.69	203.51	23.07	96.12%	99.54%	97.89%	97.44%	3	1	5.523	4.311	1.935
23432	Saturday, February 26, 2011	1:50	28.07	6.76	23.93	158.11	181.05	23.09	96.51%	98.22%	98.79%	97.03%	3	1	5.244	4.006	1.953
23431	Friday, February 25, 2011	21:42	30.34	6.97	26.00	134.35	159.09	25.02	96.23%	97.70%	98.42%	96.15%	3	1	5.596	4.428	1.928
23430	Friday, February 25, 2011	20:38	28.86	5.37	25.47	110.61	134.68	24.38	95.74%	98.11%	98.73%	96.86%	3	1	5.669	4.099	1.931
23429	Friday, February 25, 2011	19:38	25.76	5.97	22.41	89.48	110.76	21.52	96.01%	98.16%	98.46%	96.64%	3	1	5.71	4.204	1.958
23428	Friday, February 25, 2011	18:47	25.85	6.10	22.33	68.22	89.70	21.61	96.77%	98.79%	97.24%	96.07%	3	1	5.672	4.087	1.954
23427	Friday, February 25, 2011	17:55	25.53	6.21	21.95	47.28	68.41	21.28	96.95%	98.83%	98.73%	97.58%	3	1	5.498	4.092	1.96
23426	Friday, February 25, 2011	17:03	55.93	7.99	51.59	0.73	47.67	48.50	94.02%	97.68%	96.30%	94.07%	4	1	7.41	5.462	1.862
23425	Friday, February 25, 2011	14:35	28.18	6.02	24.72	149.24	172.71	23.72	95.95%	98.79%	98.46%	97.28%	3	1	5.49	4.067	1.923
23424	Friday, February 25, 2011	13:37	34.89	7.40	30.00	121.13	149.61	28.87	96.21%	98.54%	98.95%	97.51%	3	1	5.557	4.448	1.916
23423	Friday, February 25, 2011	12:24	26.81	6.55	22.89	99.56	121.43	22.03	96.26%	98.65%	99.13%	97.79%	3	1	5.372	4.067	1.971
23422	Friday, February 25, 2011	11:31	26.25	6.72	22.19	78.53	99.76	21.35	96.19%	99.26%	98.41%	97.68%	3	1	5.266	3.992	1.981
23421	Friday, February 25, 2011	10:32	31.40	7.10	26.63	53.28	78.76	25.71	96.52%	98.58%	98.78%	97.38%	3	1	5.316	4.217	1.936
23420	Friday, February 25, 2011	9:34	37.80	9.67	30.71	24.43	53.43	29.38	95.67%	98.68%	99.40%	98.09%	3	1	5.69	4.581	1.954